

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~Process~~A process for preparation of lactic acid and/or lactate, comprising: homolactically and anaerobically fermenting in a fermentation broth a pentose-containing substrate by a moderately thermophilic *Bacillus* species to form lactic acid and/or lactate; wherein homolactically and anaerobically fermenting is conducted at a temperature of from 30-65°C; the pentose-containing substrate comprises at least one of xylose, arabinose and ribose; and the pentose-containing substrate contains a smaller amount of hexose monomers than pentose monomers.
2. (Currently Amended) ~~Process~~The process according to claim 1, wherein the pentose-containing substrate comprises xylose.
3. (Currently Amended) ~~Process~~The process according to claim 1, wherein the moderately thermophilic *Bacillus* species is selected from *Bacillus coagulans* and *Bacillus smithii*.
4. (Currently Amended) ~~Process~~The process according to claim 1, wherein the pentose-containing substrate comprises arabinose.
5. (Currently Amended) ~~Process~~The process according to claim 1, wherein the pentose-containing substrate comprises glucose.
6. (Currently Amended) ~~Process~~The process according to claim 1, wherein the fermenting is performed by a mixture of moderately thermophilic *Bacillus* species and another lactic-acid producing microorganism.
7. (Currently Amended) ~~Process~~The process according to claim 1, further comprising separating the lactic acid and/or lactate from the fermentation broth.

8. (Currently Amended) ~~Process~~ The process according to claim 1, wherein the moderately thermophilic *Bacillus* species is grown on a chemically defined medium.

9. (Currently Amended) ~~Process~~ The process according to claim 7, further comprising removing biomass from the fermentation broth prior to separating the lactic acid and/or lactate from the fermentation broth, wherein the moderately thermophilic *Bacillus* species is grown on a chemically defined medium prior to the step of homolactically and anaerobically fermenting.

10. (Currently Amended) ~~Process~~ The process according to claim 7, further comprising subjecting the lactic acid and/or lactate to one or more purification steps after separating the lactic acid and/or lactate from the fermentation broth, wherein the moderately thermophilic *Bacillus* species is grown on a chemically defined medium prior to the step of homolactically and anaerobically fermenting.